

## ***AMANITA LACTEA* MALENÇON ROMAGN. & REID, AN INFREQUENT SPECIES IN THE IBERIAN PENINSULA. NEW CHOROLOGICAL CONTRIBUTIONS**

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**RÉSUMÉ:** Un taxon peu fréquent du genre *Amanita*, *A. lactea* Malençon Romagn. & Reid est décrit macro — et microscopiquement à partir de matériel provenant du Sud de l'Espagne. Son aire de distribution est ainsi augmentée, ce qui permet de confirmer sa tendance méditerranéenne.

**MOTS CLÉS:** *Amanita*, chorologie, Espagne.

**ABSTRACT:** Material of an infrequent taxon of the genus *Amanita*, viz. *A. lactea* Malençon Romagn. & Reid, collected in southern Spain, is macroscopically and microscopically described. Its distribution area is expanded and its mediterranean preference is confirmed.

**KEY WORDS:** *Amanita*, fungal chorology, Spain.

*Amanita lactea* Malençon, Romagn. & Reid, *Rev. Mycol., nouv. sér.* 32(5): 408. 1968

### **Macroscopic description:**

Pileus at the beginning convex, later flattened, 3-9 cm in diameter, pure white in colour, with ochre or cream zones in older specimens. Margin mostly sulcate (spanning up to 1 cm), incurved, non-appendiculate. Readily detachable, smooth, shiny cuticle. Universal veil present in the form of large, white patches or absent.

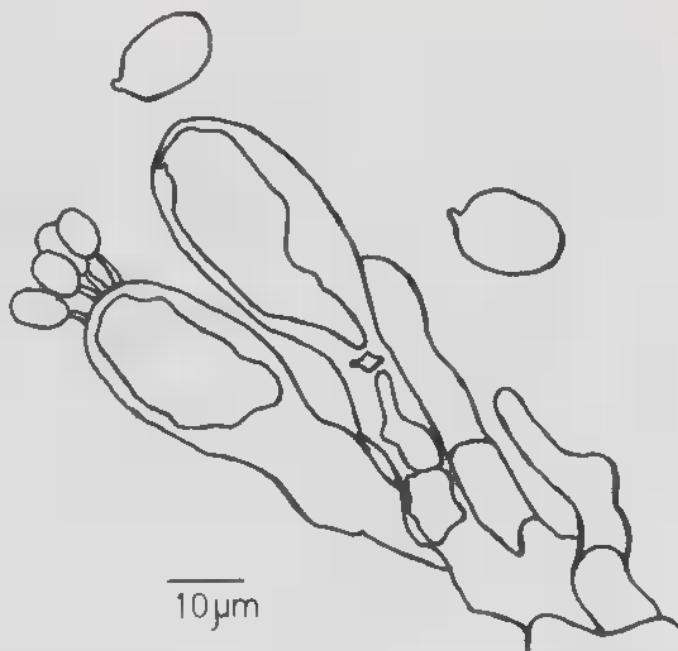


Fig. 1. — Basidium and basidiospores of *Amanita lactea* Malençon, Romagn. & Reid.

Hymenophore consisting of free lamellae, 0.8-1 cm wide and few lameilulae distant, 8-11 per cm, white to cream-coloured when mature, with a thick, crenulate, intensely white margin.

Stipe robust, hollow, white, cylindrical, up to  $9.5 \times 2.5$  cm, partly coated with white, farinaceous, easily detachable scales. Annulus rarely visible, very fugacious as in other species of section *Vaginatae*. Volva wide, membranous, saccate and white, similar to that of *Amanita ovoidea* (Bull.: Fr.) Link.

Flesh fibrous, white, immutable, without typical flavour or odour.

#### Microscopic description:

Pileipellis in upper part composed of gelatinized 2.5-8  $\mu\text{m}$  wide hyphae, and lower down with terminal elements  $85-125 \times 25-37 \mu\text{m}$  in size, interwoven or fasciculate, slightly brownish in lowest part near trama.

Universal veil made up of 1.8-7.5  $\mu\text{m}$  wide, branched, fasciculate hyphae ending in ellipsoid, ovoid or subglobose swollen cells up to  $52 \times 36 \mu\text{m}$  in size.

Basidia four-spored, clampless up to  $80 \times 13$  (18)  $\mu\text{m}$  (figure 1). Basidiospores inamyloid, ellipsoid with a lateral apiculus  $11-13(16) \times 8-10(11) \mu\text{m}$ .  $Q=1.2-1.6$  (1.8).

#### Material studied:

CÓRDOBA: Córdoba. — Arroyo de Pedroche, 30SUG4499, under *Quercus rotundifolia* and *Q. coccifera*, with *Cistus albidus* and in a deserted olive grove, 30-XI-1992, leg.

A. Castro & J. Gómez-Arjona, COFC(F) 1373; idem, 01-XII-1994, COFC(F) 1375; idem, 06-XII-1994, leg. C. Olivares & R. Porras, COFC(F) 1374; idem, 03-XII-1997, leg. A. Castro & F. Infante COFC(F) 1837.

HUELVA: Calañas. — Puertos Pelados, 29SPB8469, under *Cistus*, *Chamaerops humilis*, *Lavandula stoechas*, etc., 10-V-1997, leg. T. Jarillo, LOU-Fungi 9363.

#### Distribution:

In Spain, this species had only been previously reported in Gerona by VIDAL & PASCUAL (1993) and in Guadalajara by CASTRO (1997). It is a rare taxon that occurs in Morocco, France, Greece (TULLOSS, 1994) and Italy (MERLO & TRAVERSO, 1983). *A. lactea* is a characteristic taxa for the association *Quercetum ilicis gallo-provinciale*, subassociation *pistaciotosum* — over limestone — (CHEVASSUT, 1988).

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#### REFERENCES

CASTRO M. L., 1997 — *Amanita lactea* Malençon, Romagn. & Reid in *Cuadernos de Trabajo de Flora Micológica Ibérica*, nº 1240. C.S.I.C. Madrid.

CHEVASSUT G., 1988 — Premiers résultats de l'étude écologique et coenologique des Macromycètes de la Chênaie Verte Méditerranéenne Française (*Quercetum ilicis gallo-provinciale*). *Bulletin de la société mycologique de France* 104(2):73-78.

MERLO E. G. & TRAVERSO M., 1983 — *I nostri funghi. Le amanite*. Sagep Editrice, Genova. 151 pp.

TULLOSS R. E., 1994 — Type studies in *Amanita* Section *Vaginatae* I: Some taxa described in this century (studies 1-23) with notes on description of spores an refractive hyphae in *Amanita*. *Mycotaxon* 52:305-396.

VIDAL J. M. & PASCUAL R., 1993 — *Amanita lactea* Malençon, Romagn. & Reid in *Societat Catalana de Micologia* (Ed.) *Bolets de Catalunya* XII: 552.